

TW-N BASIC VALVE

TW-N CONTROL VALVE

CATALOG
03-L-8

DESCRIPTION

The TW-1 and TW-N Valves are manually operated, nonmodulating, two position controls. They are generally dash or panel mounted. The TW-1 Control incorporates a die cast metal body and steel plunger while the TW-N is almost entirely non-metallic. The two valves are interchangeable and substantially the same except for the unique air delivery and exhaust method of the TW-N.

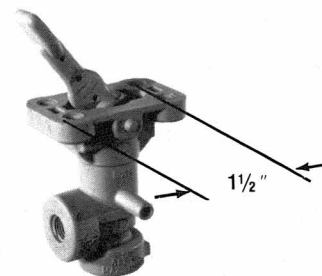
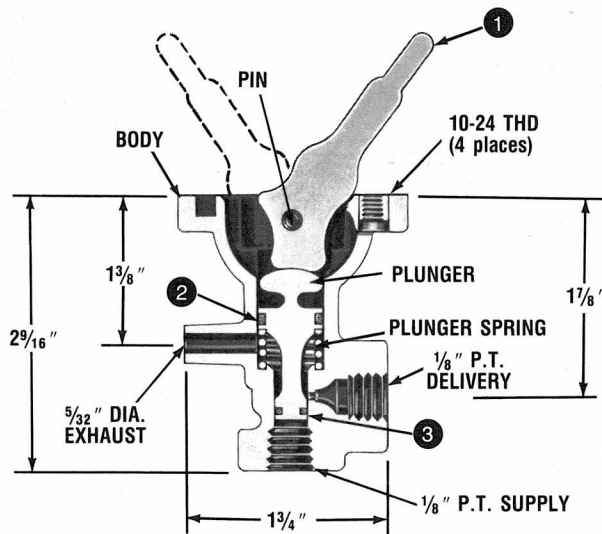
WEIGHT: TW-N — .468 LBS.
TW-1 — .5 LBS.

VMRS. NO.: 13-016-016

DEVICE CODE: TW-N — 3672
TW-1 — 3602

TW-N CONTROL VALVE PC. NO.	SERVICE* PC. NO.	LEVER POSITION
103219	065019	as shown
103223	065019	reversed
104168	065019	as shown
104235	065019	reversed

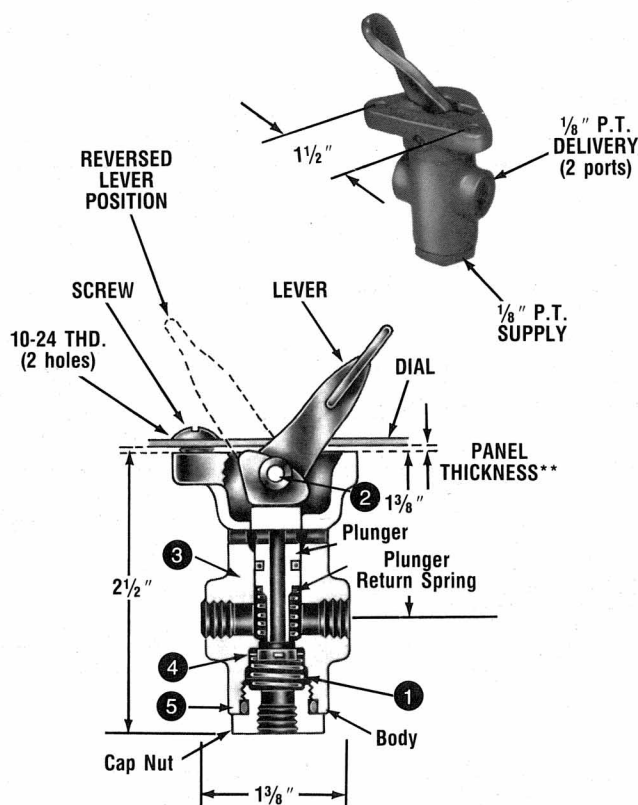
Dial not furnished with valve.
Lever position for service Pc. No. is as shown.
*Service Pc. No. includes lever repositioning instructions.



MAINTENANCE KIT 104101 CONSISTS OF:

KEY NO.	DESCRIPTION	QUANTITY
1	Lever	1
2	O-Ring	1
3	O-Ring	1

TW-1 SERVICE PARTS CHANGEOVER



** Panel thickness is related to screw length, screw part number 237032 is for a panel 1/16" thick. Screw part numbers 237139 and 245458 are for a panel 3/16" thick.

MAINTENANCE KIT 101805 CONSISTS OF:

KEY NO.	DESCRIPTION	QUANTITY
1	Valve Spring	1
2	Pin	1
3	O-Ring	1
4	Valve Ring	1
5	Ring	1

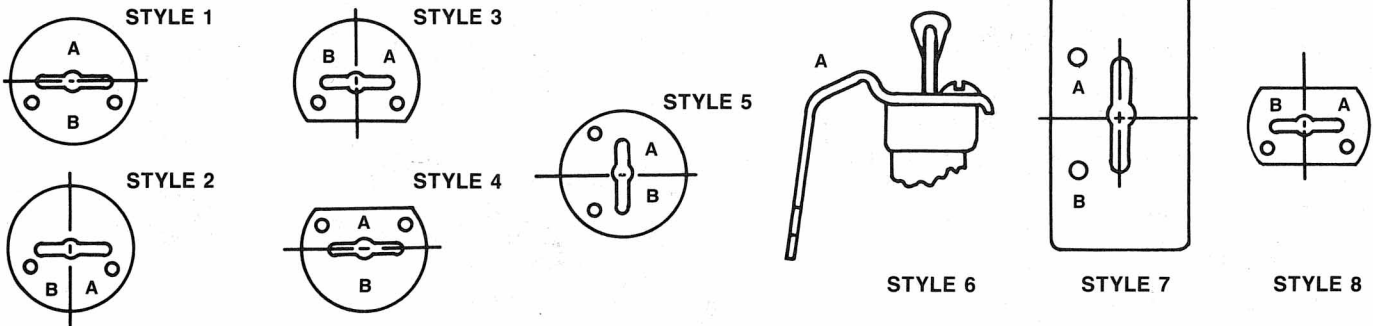
SERVICE TW-1 CONTROL VALVES AVAILABLE NEW OR REMANUFACTURED — SEE CONVERSION LIST*

SERVICE OR REMANUFACTURED PC. NO.	LEVER PC. NO.	LEVER MATERIAL PC. NO.	LEVER MATERIAL FINISH	SCREW PC. NO.	PIPE PLUG PC. NO.
228729	235034	Zinc	Chrome	NONE	NONE
229635	240832	Steel	Chrome	NONE	NONE
277516	246831	Nylon	Black	NONE	NONE
281563	234835	Zinc	Chrome	NONE	NONE
283936	247207	Steel	MatteChrome	245458	NONE
A 283938	247211	Steel	Chrome	245458	233410
B 284837	248966	Nylon	Black	NONE	NONE
A 287799	240832	Steel	Chrome	245458	233410
A 288374	235034	Zinc	Chrome	NONE	233410
288707	292168	Nylon	Black	NONE	NONE

A — Reversed Lever.
B — Self Return Lever.

* The conversion list on 03-L-8B indicates the recommended TW-1 Control Valve service replacement. The service replacement does not include the dial, screws or pipe plug, which must be purchased as a separate service part. See 03-L-8A for dials.

DIALS



All dials listed can fit both the TW-N & TW-1.

DIAL PC. NO.	A TOP HALF OR RIGHT HALF OF DIAL	B BOTTOM HALF OR LEFT HALF OF DIAL	STYLE
234841	Slippery road	Dry road	2
235035	Two speed axle - High - Low	Range selector	1
235135	Truck tractor protection - Normal - Emergency	Not for parking	1
235461	Dry road - Slippery road	---	1
235728	Inner axle differential - Lock - Unlock	---	1
236242	Truck tractor protection - Normal - Emergency	Not for parking	1
236424	Off - On	Fan control	1
236429	Not for parking - Off	On	3
237281	Power divider lock - In - Out	Do not engage with vehicle in motion	1
238027	Emergency - Not for parking - Emergency air brake	Normal	2
238196*	Truck tractor protection - Normal - Emergency	Not for parking (2nd. dial add vacuum at bottom)	1
238204	Truck tractor rear axle brakes	Normal - Emergency	1
238301	Emergency - Not for parking - Emergency vacuum brake	Normal	2
239146	Parking brake - On - Off	---	1
239193	Cab controlled - Unlock - Lock	Fifth wheel	1
239385	Front axle lockout - On - Off	---	1
239735	Trailer doors - Open - Closed	---	1
239756	Wheel brake lock - For use at well only - Off	On	2
239945	Off	On	3
239948	Normal - Not for parking - Emergency air brake	Emergency	2
240039	PRESTO-MATIC - On - Off	---	1
240209	Blank	Blank	1
240490	Front brake limiting - Road - Dry - Slippery	---	6
240491	Tractor protection - Not for parking - Normal - Emergency	---	6
240492	Inter-Axle - Differential - Unlock - Lock	---	6
241415	Blank	On - Off - Parking brake	4
241875	Digging brake	Off - On - Not for parking	1
241876	Trailer hitch	Unlock - Lock	1
243376	Deep reduction - Shift only when in low range	Out - In - Do not pre-select	1
244200*	Dry road - Slippery road	---	1
Dual mtg.	Truck tractor protection - Normal - Emergency	Not for parking	
244693	High - 5-6-7-8 - Low 1-2-3-4	Range selector	1
244694	Gear selector - 3-4 - 1-2	7-8 - 5-6	1
244699	Digging brake	On - Off - Not for parking	1
245208	Run	Pump	2
246330	Governor - Normal - Override	Air compressor	1
246486	Transmission de-clutch - On - Off	---	1
246629	This valve must be on - On - Off	Only during loading	1
246733	Pintle hook lock	Unlock - Lock	1
247184	Closed - Trailer lines	Open	2
248306	Governor - Normal - Override	Air compressor	1
249471	Lo-Lo selector - Shift only when in low	Out - In - Do not pre-select	1
249714	Slippery road	Dry road	5
290002	On	Off	5
290164	Rear axle brake - Off - On	Not for parking	1
290553	Throttle control - Outriggers	On - Off	1
290569	Parking brake (Use with engine running only) - On	Off - Warning if low pressure indicator is on, parking force is decreased. Take corrective action	7
291528	---	On - Off parking brake	4
292675	Aux. Trans.	Shift at standstill only	1
292676	---	Off - On suspension	1
290626	---	On - Off suspension	1
296726	Low	High	8

*Imprinted front and back.

TW-1**OE TO
SERVICE
REMAN.****TW-1
CONTROL VALVE****CATALOG
03-L-8B****TW-1 SERVICE/REMANUFACTURED CONVERSION LIST**

ORIGINAL EQUIPMENT PC. NO.	SERVICE REPLACEMENT PC. NO.	DIAL* PC. NO.	SCREWS* PC. NO.	PIPE PLUG PC. NO.
228729	228729	NONE	NONE	NONE
229604	281563	234841	237032	NONE
229605	281563	236424	237032	NONE
229606	281563	234921	237032	NONE
229620	228729	244200	237032	233410
229621	228729	238204	237032	233410
229622	228729	238027	237032	NONE
229623	228729	235461	237032	NONE
229624	228729	238301	237032	233410
229625	228729	235135	237032	233410
229626	228729	236242	237139	NONE
229627	228729	236429	237032	NONE
229628	228729	235728	237032	NONE
229629	228729	237281	237032	233410
229631	228729	235728	237032	233410
229632	228729	239146	237032	233410
229633	228729	239193	237032	233410
229634	228729	239756	237032	NONE
229635	229635	NONE	NONE	NONE
229636	229635	NONE	NONE	233410
229637	229635	235135	237032	233410
229638	229635	235461	237032	NONE
229639	229635	235728	237032	NONE
229640	229635	236429	237032	NONE
229641	229635	239385	237032	233410
229690	229635	239735	237032	233410
229693	229635	239146	237032	233410
229810	228729	239948	237032	NONE
229999	228729	240039	237032	NONE
275345	228729	A240490	237032	233410
275346	228729	A240491	237032	233410
275347	288374	A240492	237032	NONE
275829	228729	240039	237032	233410
276424	228729	341415	237032	NONE
276441	228729	NONE	NONE	233410
276442	228729	NONE	NONE	233410
276923	229635	NONE	NONE	233410
277139	229635	241875	237032	233410
277140	229635	241876	237032	233410
277516	277516	NONE	NONE	NONE
278525	229635	243376	237032	233410
279093	229635	236242	237139	NONE
279249	228729	NONE	NONE	NONE
279392	228729	244200	237139	NONE
279968	229635	244693	237032	233410
279969	229635	244694	237032	233410
279978	229635	244699	237032	233410
279985	277516	NONE	NONE	233410
280059	228729	NONE	NONE	233410
280233	277516	235461	237032	NONE
280234	277516	235135	237032	233410
280235	277516	235728	237032	NONE
280366	277516	NONE	NONE	NONE
280499	228729	NONE	245458	233410
280764	228729	245208	237032	NONE
281563	281563	NONE	NONE	NONE
281737	277516	244200	237139	NONE
281738	277516	NONE	245458	233410

ORIGINAL EQUIPMENT PC. NO.	SERVICE REPLACEMENT PC. NO.	DIAL* PC. NO.	SCREWS* PC. NO.	PIPE PLUG PC. NO.
281739	277516	244200	237032	233410
281740	277516	236429	237032	NONE
281741	277516	235035	237032	233410
281825	228729	239945	237032	NONE
281841	277516	238196	237032	NONE
281842	277516	238204	237032	233410
281843	277516	238027	237032	NONE
281844	277516	236242	237139	NONE
281845	277516	237281	237032	233410
281846	277516	235728	237032	233410
281847	277516	239146	237032	233410
281848	277516	239193	237032	233410
281849	277516	239756	237032	NONE
281850	277516	243376	237032	233410
281851	277516	239735	237032	233410
281852	277516	245208	237032	NONE
281853	277516	239948	237032	NONE
281854	277516	244694	237032	233410
281855	277516	241875	237032	233410
281976	228729	246330	245458	233410
282009	277516	NONE	NONE	233410
282049	228729	246486	237032	233410
282053	229635	246733	237032	233410
282379	228729	246629	237032	233410
282575	229635	NONE	NONE	NONE
283022	228729	247184	237032	233410
283041	283936	NONE	NONE	NONE
283044	283938	NONE	NONE	NONE
283936	283936	NONE	NONE	NONE
283938	283938	NONE	NONE	NONE
283985	228729	248396	245458	233410
284031	277516	240209	237032	NONE
284045	228729	B248354	237032	NONE
284837	284837	NONE	NONE	NONE
285273	229635	249471	237032	233410
285567	228729	246486	237032	233410
285568	228729	246629	237032	233410
285936	228729	290002	237032	233410
286152	229635	290164	237032	NONE
286486	229635	290553	237032	233410
286686	228729	249714	237139	NONE
286687	229635	NONE	NONE	233410
286688	277516	290626	237032	233410
287799	287799	NONE	NONE	NONE
287844	228729	291528	237032	233410
288052	277516	NONE	NONE	NONE
288058	228729	NONE	NONE	NONE
288374	288374	NONE	NONE	NONE
288707	288707	NONE	NONE	NONE
288988	228729	290569	237139	NONE
289256	287799	290626	245458	233410
289521	229635	292675	237032	233410
289522	277516	292675	237032	233410
101820	277516	240209	237032	233410
102167	229635	240209	237032	233410
102273	288374	290164	237032	NONE
102969	229635	NONE	245458	NONE
103852	228729	296726	237032	233410
104504	288069	290164	237032	NONE

A — Combination Bracket and Dial.

B — This Piece Number (248354) is a Bracket, not a Dial.

* Must be purchased as a separate service part.

TW-N & TW-1

CONTROL VALVES

CATALOG
03-L-8C